Amendments to the Claims:

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Previously presented) A top coating composition comprising:

 a mixture of a polymeric binder, heat expandable graphite particles, a polymeric carrier and an effective amount of a pigment, the mixture providing a coating that has the ability to char and expand when introduced to flame, has an initial energy efficiency rating greater than or equal to 0.65 for a low-sloped roof or greater than or equal to 0.25 for a steep-sloped roof, wherein said mixture has a solids content from about 50-75 wt. % with 1-10 total wt.% of the expandable graphite particles.
- 2. (Original) The top coating composition of Claim 1 wherein the polymeric binder is a thermoplastic polymer or a thermoplastic rubber.
- 3. (Original) The top coating composition of Claim 2 wherein the polymeric binder is a thermoplastic polymer selected from the group consisting of acrylic or methacrylic polymers or copolymers, epoxy resins, and polyvinyl acetate.
- 4. (Original) The top coating composition of Claim 2 wherein the polymeric binder is a thermoplastic rubber selected from the group consisting of styrene-butadiene rubbers,

styrene-butadiene-styrene rubbers, styrene-ethylene-butadiene-styrene (SEBS) rubbers, styrene isoprene styrene (SIS) rubbers, and styrene butadiene rubbers.

- 5. (Original) The top coating composition of Claim 1 wherein the polymeric carrier is water or a hydrocarbon solvent.
- 6. (Original) The top coating composition of claim 1 wherein the pigment comprises titanium dioxide, calcium carbonate, colemanite, aluminum trihydrate (ATH), borate compounds or mixtures thereof.
- 7. (Previously presented) The top coating composition of claim 1 wherein decomposition and release of gasses when exposed to fire causes expansion of the coating.
- 8. (Original) The top coating composition of Claim 1 wherein the polymeric binder and the polymeric carrier form an aqueous polymeric-based emulsion.
- 9. (Original) The top coating composition of Claim 1 wherein the polymeric binder and the polymeric carrier form a solvent polymeric-based emulsion.
- 10. (Original) The top coating composition of Claim 1 wherein the polymeric binder is present in said mixture in an amount from about 5 to about 60 wt. %.

- 11. (Original) The top coating composition of Claim 1 wherein the polymeric carrier is an acrylic polymer that is present in said mixture in an amount from about 30 to about 50 wt. %.
- 12. (Original) The top coating composition of Claim 1 wherein the polymeric carrier is a thermoplastic rubber that is present in said mixture in an amount from about 8 to about 18 wt. %.
- 13. (Original) The top coating composition of Claim 1 wherein the pigment is present in said mixture in an amount from about 2 to about 20 wt. %.
- 14. (Original) The top coating composition of Claim 1 further comprising one or more optional components selected from the group consisting of dispersants, defoamers, fillers,
 - 15. (Currently amended) A top coat comprising:

a cured reaction product of a polymeric binder, heat expandable graphite particles, a polymeric carrier and a pigment, said cured reaction product having an initial energy efficiency rating greater than or equal to 0.65 when applied to <u>a</u> low-sloped roof, or an initial energy efficiency greater than or equal to 0.25 when applied to a steep-sloped roof; and further wherein the top coat will not fully char when exposed to flame and allow expansion of the graphite particles.

16. (Original) A roofing product comprising a substrate and the top coat of Claim15.

17. (Canceled)

18. (Original) The roofing product of Claim 16 wherein said substrate comprises single ply membranes, built-up roofing (BUR), modified bitumen, ethylene propylene diene monomer rubber (EPDM) or standing-seam profile.

19. (Canceled)

- 20. (Original) The roofing product of Claim 19 wherein the substrate comprises composite shingles, clay, concentrate, fiber cement tile, slate, shakes, architectural profiled
- 21. (Previously presented) The roofing product of Claim 15 wherein the top coat has the ability to char when introduced to flame.